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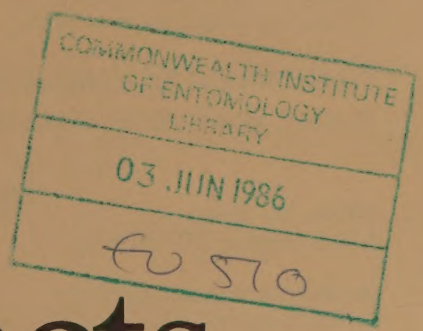
Field crop abstracts



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FIELD CROP ABSTRACTS
is a monthly journal prepared by the:

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In keeping with its new international image, the Commonwealth Agricultural Bureaux has been renamed **C·A·B International**. This change was agreed by the 29 member countries at the Tenth Quinquennial Review Conference, held in London in September 1985. The Conference also agreed to a draft new Constitution, and this document is currently under ratification procedures by member governments.

The provision of information and scientific services in agriculture and related fields will remain the primary functions of C·A·B International. However, the organisation will also be aiming to provide a broader range of services and will be welcoming to membership other countries, including non-Commonwealth countries, which wish to join the traditional Commonwealth country membership.

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A list of Executive Council Members and Liaison Officers will be published in the next issue of this journal.

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The address given at the end of abstract citations is that of the first author and normally denotes the address at which the work was carried out.

Transliteration of Cyrillic script is based on the International Standard ISO/R9 1968 (E).

The titles of periodicals and reports conform where possible to those given in the *World List of Scientific Periodicals* (4th Edn; London: Butterworth) and are listed in *Field Crop Abstracts* Vol. 36, No. 2, on pp. 123-132. They can also be obtained as a separate from the Bureau of Pastures and Field Crops, Hurley, Maidenhead SL6 5LR, price £1.00.

LANGUAGE SYMBOLS

The language symbols used are listed below. An initial capital letter denotes the main language of a paper, a small letter the language of the summary (ies)

Af	Afrikaans	Eo	Esperanto	My	Malay/ Bahasamalaysia
Al	Albanian	Es	Spanish	Nl	Dutch, Flemish
Ar	Arabic	Fi	Finnish	No	Norwegian
Az	Azerbaijan(i)/Azerbaidzhani/ Azerbaidzhanian	Fr	French	Pe	Persian
		Gr	Greek	Pt	Portuguese
Be	Belorussian	Hu	Hungarian	Ro	Romanian
Bg	Bulgarian	Ia	Interlingua	Ru	Russian
Ch	Chinese	In	Indonesian	Sh	Serbocroat
Cr	Croat	It	Italian	Sk	Slovak
Cs	Czech	Ja	Japanese	Sn	Slovene
Da	Danish	La	Latin	Sv	Swedish
De	German	Li	Lithuanian	Ta	Tajik/Tadzhik
Ee	Estonian	Lv	Latvian	Tr	Turkish
En	English	Ma	Macedonian	Uk	Ukrainian

ABBREVIATIONS

The abbreviations used for the names of common units, mathematical operations, chemical elements, etc., are in accordance with British Standard 1991 : 1967. Additional abbreviations used follow the CAB Standard List of Abbreviations, which is published in the Annual Index; a copy may be obtained from the Bureau, price £0.15. In addition, the following are used:

FCA	*Field Crop Abstracts*	*HbA*	*Herbage Abstracts*
WA	*Weed Abstracts*		

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The Commonwealth Bureau of Pastures and Field Crops is located at the Animal and Grassland Research Institute, Hurley, and is one of a group of 10 Bureaux and 4 Institutes which together form the Commonwealth Agricultural Bureaux, an organization financed and administered jointly by the various Commonwealth Governments and Dependent Territories. The Commonwealth Agricultural Bureaux produce over 150 000 records annually. These are published in 27 main and 17 specialist abstract journals and are also available in tape form and through various on-line hosts. The journals are listed on the back cover.

The Commonwealth Bureau of Pastures and Field Crops prepares records for three monthly main journals, *Field Crop Abstracts, Herbage Abstracts,* and *Weed Abstracts*. These journals cover world scientific literature on annual field crops, pastures, herbage crops and rangelands, weeds, weed control and herbicides and provide a comprehensive guide to current scientific developments and a key to literature published in the past. The Bureau also publishes review articles on selected subjects in *Herbage Abstracts* and *Field Crop Abstracts*.

Scope of Field Crop Abstracts: The subjects covered include the agronomy and major aspects of the biology of all annual field crops grown for food, fodder, oil and fibre, and of tobacco. Land use, farming systems, agricultural meteorology and the control of weeds, pests and diseases are dealt with only in so far as they concern the crop coverage.

The Bureau is prepared, on request, to undertake literature searches and to compile bibliographies on subjects within its scope.

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CEREALS

Wheat	1	45	107	155	219	307	369	439	539	607	721	803
Oats	5	51	112	163	230	312	377	448	543	618	733	811
Rye	5	51	113	164	231	312	378	450	–	618	733	812
Triticale	–	52	114	165	233	–	378	451	543	619	734	–
Barley	5	52	114	165	233	313	378	451	544	620	735	812
Zizania aquatica	–	55	117	–	240	–	–	456	545	–	739	–
Maize	8	55	118	168	240	316	382	457	545	626	739	817
Sweetcorn	–	61	–	175	247	320	–	464	–	636	747	–
Rice	12	61	121	175	248	320	387	464	547	637	747	824
Sorghum	15	65	123	180	250	327	397	471	552	647	755	831
Pennisetum americanum	18	66	124	181	251	329	398	476	553	650	757	833
Panicum miliaceum	–	–	124	181	252	329	398	477	554	–	758	833
Panicum miliare	–	–	–	–	–	–	–	–	–	–	–	–
Eleusine coracana	19	66	124	–	–	–	–	–	554	651	758	833
Minor cereals	–	–	–	–	–	–	–	–	–	–	–	–
Cereals, general	19	66	124	182	252	329	399	478	554	651	758	834

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Groundnuts	23	73	129	186	259	336	405	486	557	665	768	849
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Vicia spp.	26	76	132	190	263	340	407	490	559	670	771	852
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Vigna spp.	28	79	134	193	267	344	411	493	560	674	775	858
Cajanus cajan	29	81	135	195	269	345	412	–	561	–	–	859
Cicer arietinum	29	81	135	195	269	345	412	495	561	677	776	860
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Lupinus spp.	29	81	136	196	–	346	412	496	561	678	777	860
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Legumes, general	30	81	–	197	271	347	413	497	562	679	777	862

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Sugarbeet	30	82	137	197	271	347	413	497	562	680	778	863
Fodder beet	31	84	–	198	273	–	–	499	563	682	780	865
Turnips and swedes	32	–	–	–	–	–	415	499	–	–	–	–
Potatoes	32	84	138	198	273	349	415	499	563	682	781	865
Carrots	–	–	–	–	–	–	–	–	–	–	–	–
Sweet potatoes	34	88	140	201	278	352	419	503	–	686	783	869
Cassava	–	88	–	202	278	353	419	503	567	688	783	869
Dioscorea spp.	–	88	140	–	279	353	421	504	–	690	784	870
Colocasia esculenta	–	88	–	202	279	–	422	504	568	691	–	–
Minor root crops	–	–	–	–	–	–	–	–	–	–	–	–
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CAB STANDARD LIST OF ABBREVIATIONS

AAS	atomic absorption spectrometry
ABA	abscisic acid
a.c.	alternating current
ACTH	adrenocorticotropic hormone
ad lib.	ad libitum
ADP	adenosine diphosphate
a.e.	acid equivalent
a.i.	active ingredient
AI	artificial insemination
alt.	altitude
a.m.	*ante meridiem*
approx.	approximately
aq.	aqueous
ATP	adenosine triphosphate
Aug.	August
av.	average
BOD	biochemical oxygen demand
b.p.	boiling point
c.	circa
CA	controlled atmosphere
cAMP	cyclic adenosine monophosphate
CEC	cation exchange capacity
cf.	compare
CF	crude fibre
CGR	crop growth rate
CNS	central nervous system
COD	chemical oxygen demand
coeff.	coefficient
col.	coloured
conc.	concentrated
const.	constant
CP	crude protein
CR	conception rate
cryst.	crystalline
CSIRO	Commonwealth Scientific and Industrial Research Organization [Australia]
cv.	cultivar
CV	coefficient of variation
d.b.h.	diameter at breast height
d.c.	direct current
DCP	digestible crude protein
DDM	digestible dry matter
DE	digestible energy
Dec.	December
DHIA	Dairy Herd Improvement Association
DM	dry matter
diam.	diameter
dil.	dilute
DMSO	dimethyl sulphoxide
DNA	deoxyribonucleic acid
DOCA	desoxycorticosterone acetate
DOM	digestible organic matter
DTA	differential thermal analysis
E.	east
ED	effective dose
EDTA	ethylenediaminetetracetic acid
EEC	European Economic Community
e.g.	for example
Eh	oxidation-reduction potential
ESP	exchangeable sodium percentage
et al.	*et alii*
f.	*forma*
F	filial generation
F	inbreeding coefficient
FAD	flavin adenine denucleotide
FAO	Food and Agriculture Organization
FCM	fat-corrected milk
FDA	Food and Drug Administration
Feb.	February
FGA	fluorogestone acetate
FMN	flavin mononucleotide
f.p.	freezing point
FSH	follicle stimulating hormone
FSHRH	FSH-releasing hormone
f.sp.	*forma specialis*
FU	food unit/fodder unit
FYM	farmyard manure
g.b.h.	girth at breast height
gen.	genus
GLC	gas-liquid chromatography
GnRH	gonadotropin-releasing hormone
Gram+	Gram positive
Gram−	Gram negative
$h2$	heritability
Hb	haemoglobin
HCG	human chorionic gonadatropin
ht.	height
ICSH	interstitial cell stimulating hormone
i.e.	that is
IR	infrared
IU	international unit
IVT	Illini variable temperature
Jan.	January
LAI	leaf-area index
LAR	leaf-area ratio
lat.	latitude
LC	lethal concentration
LD	lethal dose
LH	luteinizing hormone
LHRF	LH-releasing factor
LHRH	LH-releasing hormone
loc.cit.	place cited
long.	longitude
M[small cap]	molar
MA	megestrol acetate
m.a.i.	mean annual increment
MAP	6-α-methyl-17α-acetoxy-progesterone
max.	maximum
m.c.	moisture content
ME	metabolizable energy
MGA	melengestrol acetate
min.	minimum
mol.	molecular
m.p.	melting point
MS	mass spectrometry
MU	mouse unit
N.	north
N[small cap]	normal [concentration]
NAD+	nicotinamide adenine dinucleotide (oxidized form)
NADH	nicotinamide adenine dinucleotide (reduced form)
NADP+	nicotinamide adenine dinucleotide phosphate (oxidized form)
NADPH	nicotinamide adenine dinucleotide phosphate (reduced form)
NAR	net assimilation rate
NE	north-east
NFE	nitrogen-free extract
NMR	nuclear magnetic resonance
Nov.	November
NW	north-west
obs.	observed
Oct.	October
OM	organic matter
opt.	optimum
P	parental generation
P	probability
p.a.	*per annum*
PG	prostaglandin
pH	hydrogen-ion concentration
p.m.	*post meridiem*
PMB	pregnant mare blood
PMS	pregnant mare serum
PMSG	pregnant mare serum gonadotropin
PMU	pregnant mare urine
post-em.	post-emergence
p.p.h.m.	parts per hundred million
p.p.m.	parts per million
ppt.	precipitate
pre-em.	pre-emergence
PVC	polyvinyl chloride
q.v.	which see
RBV	relative breeding value
resp.	respectively
RGR	relative growth rate
RH	relative humidity
RNA	ribonucleic acid
RU	rat unit
S.	south
SAR	sodium absorption ratio
s.d.	standard deviation
SE	south-east
s.e.	standard error
Sept.	September
SNF	solids not fat
sol.	solution
sp.	species
sp.gr.	specific gravity
SSP	soluble sodium percentage
s.t.p.	standard temperature and pressure
str.	strain
SW	south-west
syn.	synonym
TDN	total digestible nutrients
temp.	temperature
TG	thermogravimetry
TLC	thin-layer chromatography
TMV	tobacco mosaic virus
UHT	ultra-high temperature
USDA	United States Department of Agriculture
UV	ultraviolet
var.	variety
VFA	volatile fatty acids
viz.	namely
vol.	volume
v.p.m.	volume per million
vs.	versus
v/v	volume/volume
W.	west
WHO	World Health Organization
wk	week
w.p.	wettable powder
wt.	weight
w/v	weight/volume
w/w	weight/weight
yr	year

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